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Z. Li, X. Liang, M.L. Stutzman, J.A. Spizuoco, S. Chandavarkar and R.D. Diehl, LEED study of the order–disorder transition of the p(2 × 2) phase of oxygen chemisorbed on Ni(111) 327 (1995) 121

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A.A. Aquino, J.J. Hill and T.S. Jones, Evidence for a surface methylene species in the decomposition of trimethylgallium on GaAs(100)-(4 × 1): a high resolution electron energy loss spectroscopy study 327 (1995) 74

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